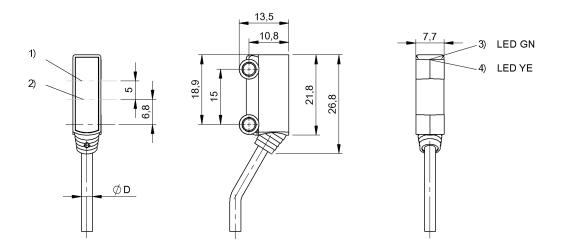
BOS R020K-NS-PR11-02

Order Code: BOS020P





1) Optical axis receiver, 2) Optical axis emitter, 3) Operating voltage, 4) Light reception



Basic features

Approval/Conformity CE cULus WEEE IEC 60947-5-2 **Basic standard** Principle of operation Photoelectric sensor Reference reflector BOS R-9 R020K Series Style Square Connection 60°

Display/Operation

Display LED green: Power LED yellow: Light received

Electrical connection

Cable diameter D 2.40 mm Cable length L 2 m Conductor cross-section 0.09 mm² Connection Cable, 2.00 m, PVC Number of conductors Polarity reversal protected ves Short-circuit protection yes

Electrical data

No-load current lo max. at Ue 20 mA Operating voltage Ub 10...30 VDC **Protection class** Ш Rated insulation voltage Ui 50 V DC Rated operating current le 50 mA Rated operating voltage Ue DC 24 V Ripple max. (% of Ue) 20 % 800 Hz Switching frequency Turn-off delay toff max. 0.63 ms Turn-on delay ton max. 0.63 ms 2.5 V Voltage drop Ud max. at le

Environmental conditions

-25...50 °C Ambient temperature IP rating IP67

Functional safety

MTTF (40 °C) 3378 a

Interface

Switching output NPN normally open (NO)

Material

Subject to change without notice: 271950

Housing material ABS PVC Material jacket Material sensing surface PMMA

Photoelectric Sensors

BOS R020K-NS-PR11-02 Order Code: BOS020P



Mechanical data

Dimension 7.7 x 26.8 x 13.5 mm

Mounting part Screw M3

Range/Distance

Optical features

Ambient light max. 5000 Lux Blind zone 25 mm

Light spot sizeØ 11 mm at 250 mmLight typeLED, red light

Polarizing filter yes

Principle of optical operation Retroreflective sensor

Switching function, optical dark-on Wave length 660 nm

Remarks

The sensor is functional again after the overload has been eliminated.

 $Actuation \ object \ (target): gray \ card, 200 \ x \ 200, 90 \ \% \ remission, \ lateral \ approach, \ approach \ direction \ vertical \ to \ lens \ axis \ plane.$

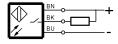
For additional information, refer to user's guide.

Order accessories separately.

For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Wiring Diagrams



Opto Symbols

